

Appl. No. 09/782,151  
Amdt. dated December 17, 2003  
Reply to Office Action of Sept. 18, 2003

interactions between the operating system software and each of the programs and tasks managed  
by the operating system software;

invoking operating software scheduling information capture; and  
recording operating software scheduling information.

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2. (original) The method as claimed in claim 1, wherein the operating software  
scheduling information capture procedure is invoked on an operating software task switch.

3. (original) The method as claimed in claim 1, wherein the operating software  
scheduling information recorded includes information updated or maintained by the operating  
software in relation to the scheduling of a program.

4. (original) The method as claimed in claim 1, wherein the operating software  
scheduling information recorded includes task identification, task priority, and task run-time  
length.

5. (original) The method as claimed in claim 1, wherein the operating software  
scheduling information includes a task waiting count.

6. (original) The method as claimed in claim 1, wherein the operating software  
scheduling information is recorded to a ledger.


7. (original) The method as claimed in claim 6, wherein the ledger is at least  
one of a circular or fixed length ledger.

8. (original) The method as claimed in claim 1, wherein the scheduling  
information includes at least one of the number of program schedules, program preempts, and  
interrupts.

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9. (original) The method as claimed in claim 1, wherein the scheduling information includes at least one of the highest priority attained, program identity and length of run-time.

10. (original) The method as claimed in claim 1, wherein the scheduling information includes at least one of the lowest priority attained, program identity and length of run-time.

 11. (original) The method as claimed in claim 1, where the scheduling information includes at least one of the number of times in the idle loop and length of run-time.

12. (original) The method as claimed in claim 1, wherein the scheduling information includes a sequential record of at least one of scheduled programs, priorities and events.

13. (original) The method as claimed in claim 1, wherein the scheduling information includes at least one of the number and identity of programs waiting to run.

14. (original) The method as claimed in claim 1, wherein the operating software scheduling information capture is invoked on an event occurrence.

15. (currently amended) A method of capturing operating software scheduling information during execution of said operating software, wherein said method is performed using operating software scheduling information compiled and integrated with the operating software, the method comprising the steps of:

invoking operating software scheduling information capture software, the operating software scheduling information capture software being operative to record a history of operating software events as they occur, the history being organized and stored as operating software

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program scheduling information relating to interactions between the operating system software  
and each of the programs and tasks managed by the operating system software; and  
recording operating software scheduling information.

16. (original) The method as claimed in claim 15, wherein said operating software scheduling information capture software is not resident on an external device.

17. (original) The method as claimed in claim 15, wherein said operating software scheduling information capture software is not a separate task scheduled by an operating software scheduler.

18. (currently amended) A computer system for capturing operating software scheduling information during execution of said operating software comprising:

a processor for receiving and transmitting data; and

a memory coupled to the processor, the memory having stored therein sequences of instructions which, when executed by the processor, cause the processor to invoke operating software scheduling information capture software, the operating software scheduling information capture software being operative to record a history of operating software events as they occur, the history being organized and stored as operating software program scheduling information relating to interactions between the operating system software and each of the programs and tasks managed by the operating system software, and to record operating software capture information.

19. (original) The computer system as claimed in claim 18, wherein said operating software scheduling information capture software is internally processed on said processor.

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20. (original) The computer system as claimed in claim 18, wherein said operating software scheduling information capture software is not a separate task scheduled by an operating software scheduler.

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